

- Radial positioning for frontal teeth surfaces,
- Inverted positioning for the back of the teeth
- Straight positioning for flat, accessible tooth surfaces

Unique new toothbrush mechanically changes brushing surfaces to provide maximum contact with the teeth for a more efficient cleaning

Flexible bristle mount allows user to manipulate surface configuration of the toothbrush bristles, providing a straight, a radial and an inverted brushing surface

Producible in a variety of unique styles, colors, and bristle preferences (soft, medium & hard)

FIG. 1

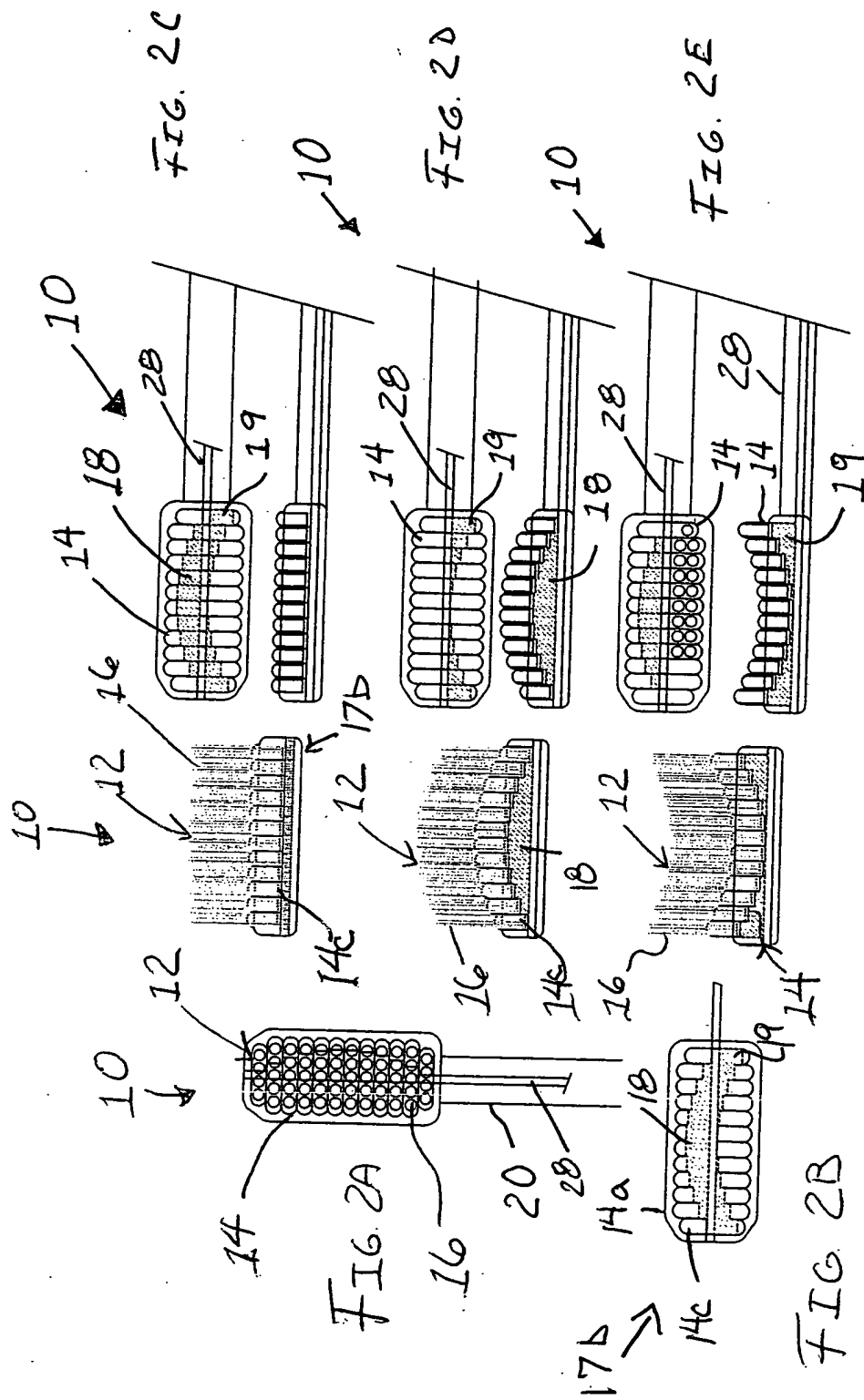


FIG. 2.

3 position rotating cam toothbrush

10

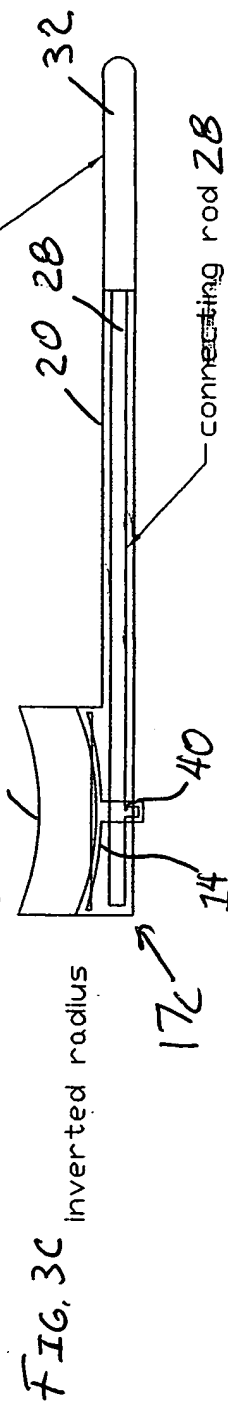
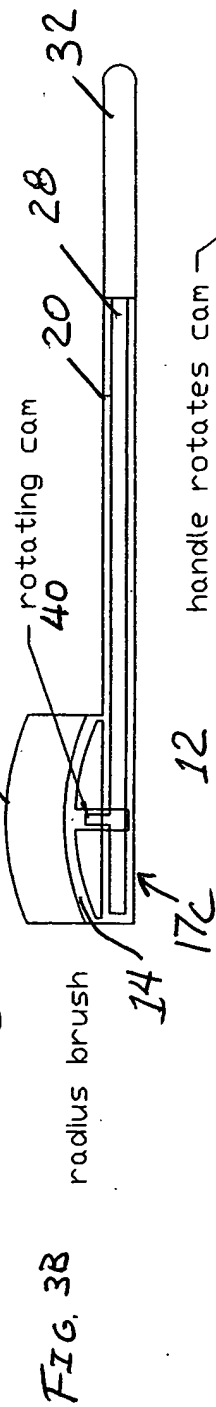
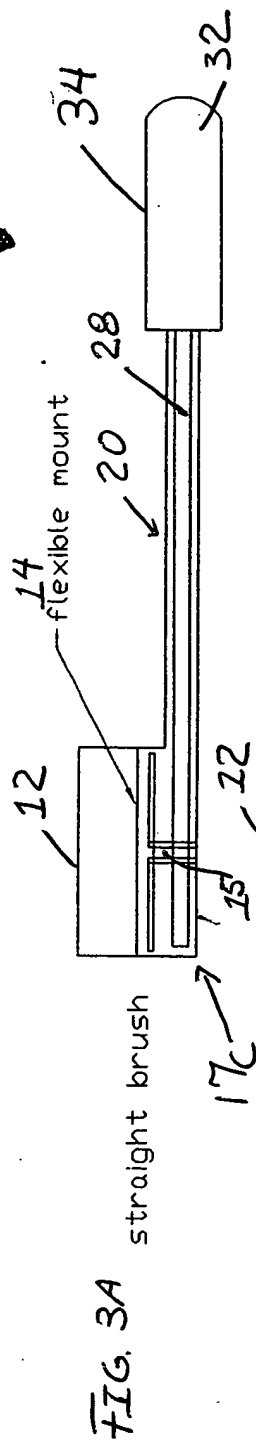


FIG. 3

3 position push/pull handle and lever

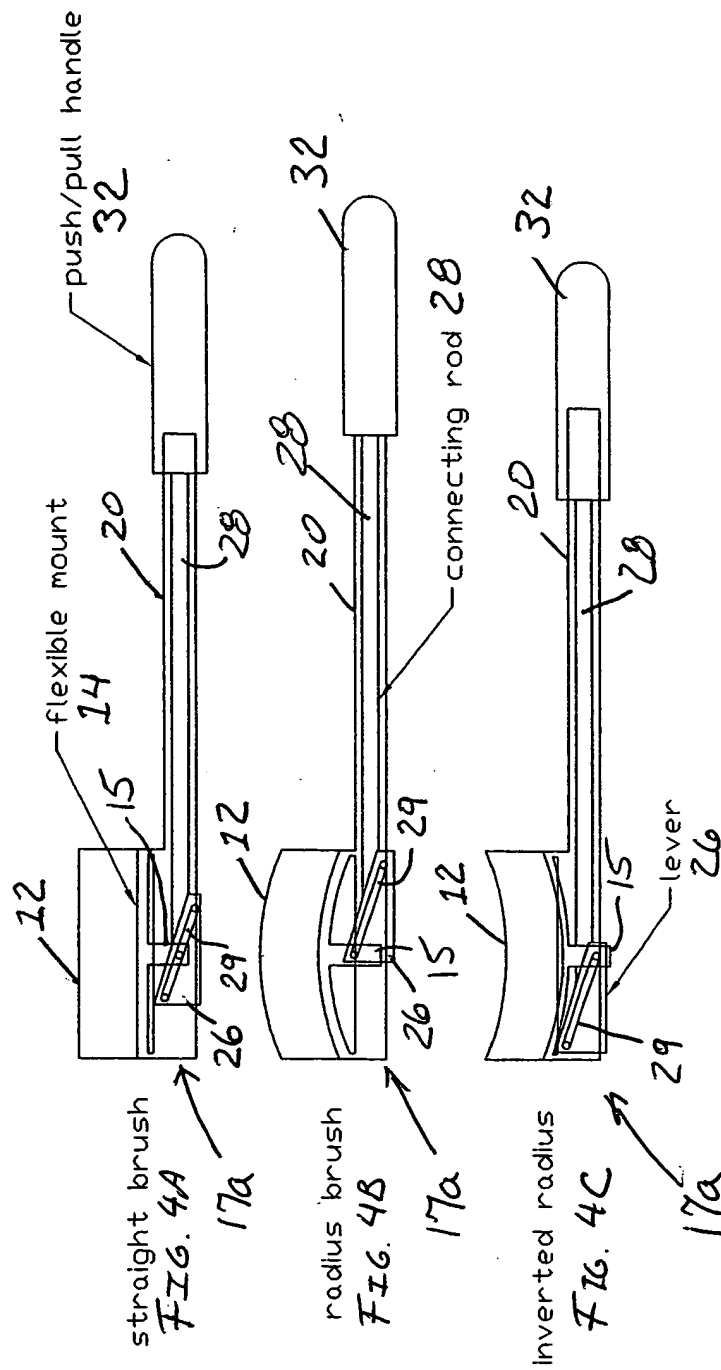


Fig. 4

thumb slide with lever

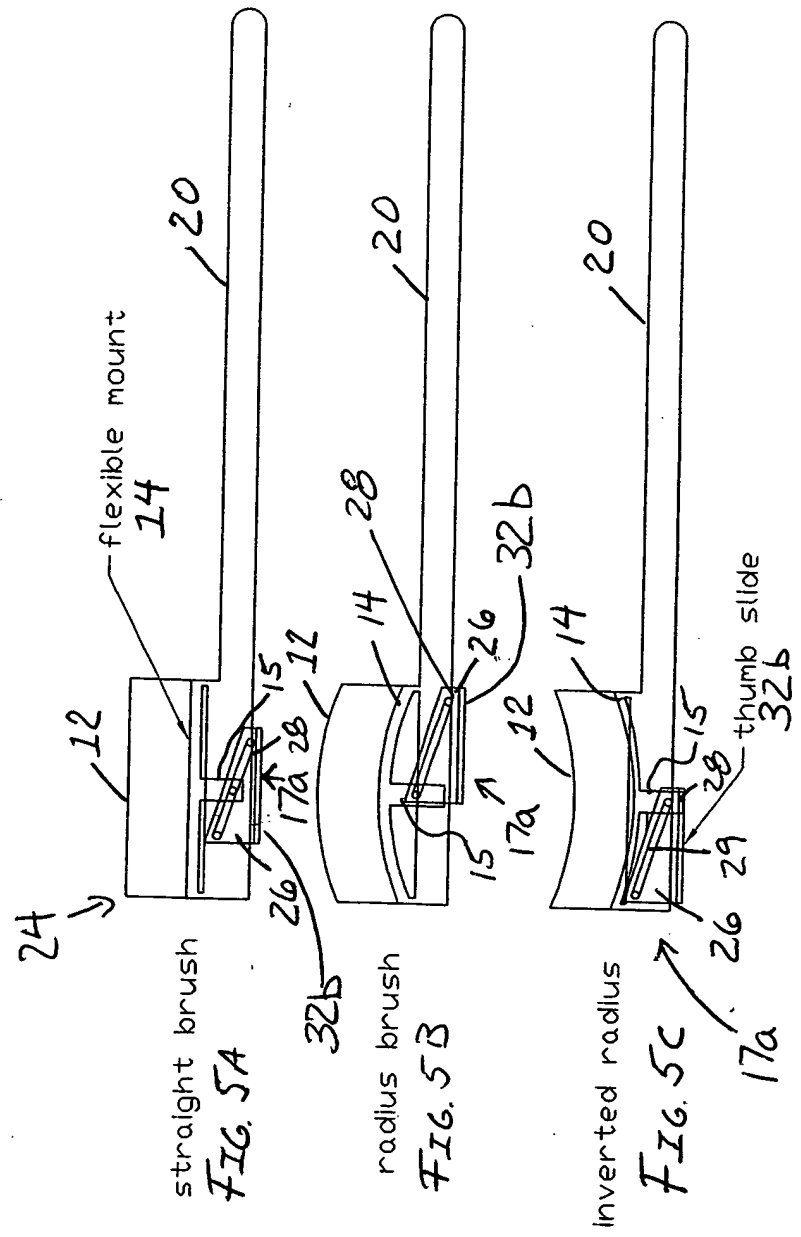


FIG. 5

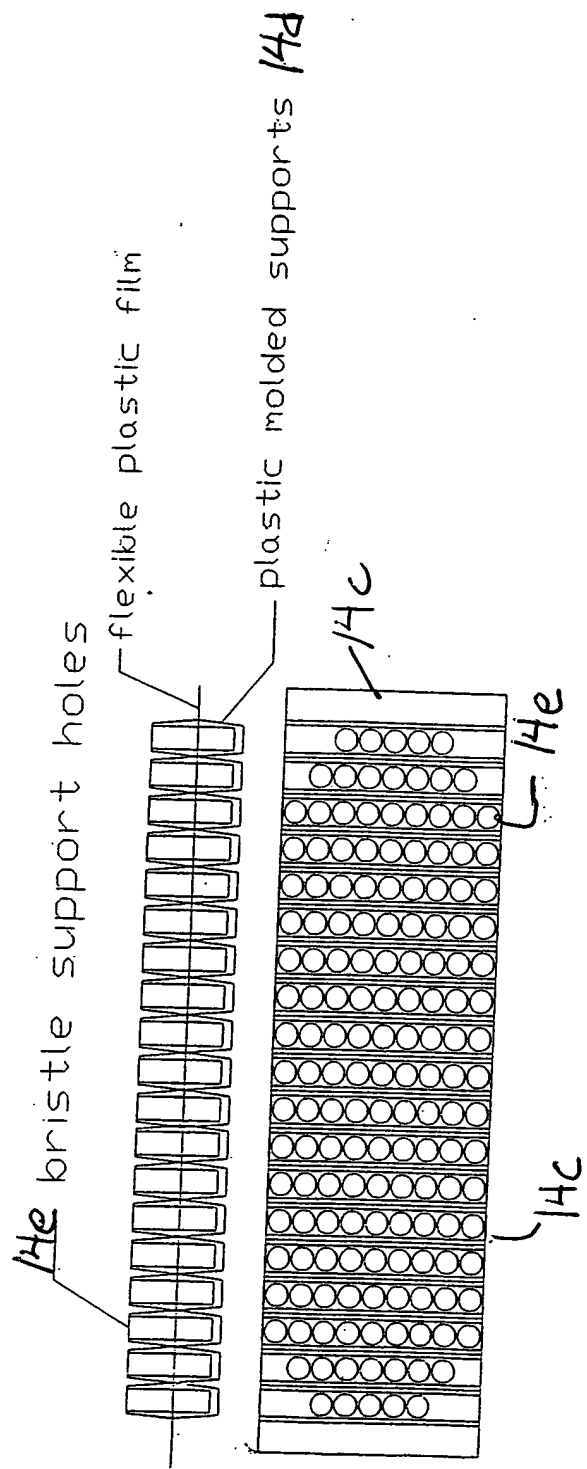


FIG. 6

FIG. 7

12 segment
3 in 1 toothbrush
with two form keys

straight brush

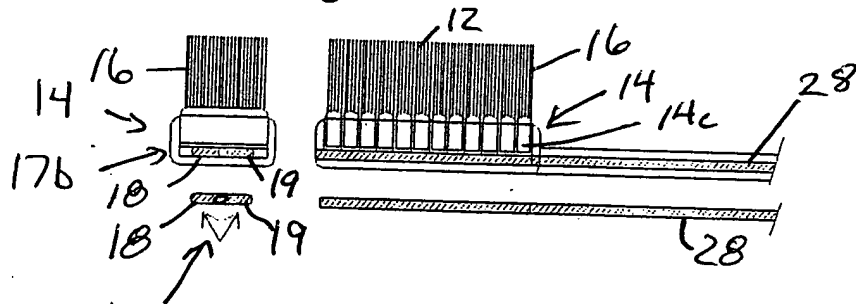


FIG. 7A

radial brush

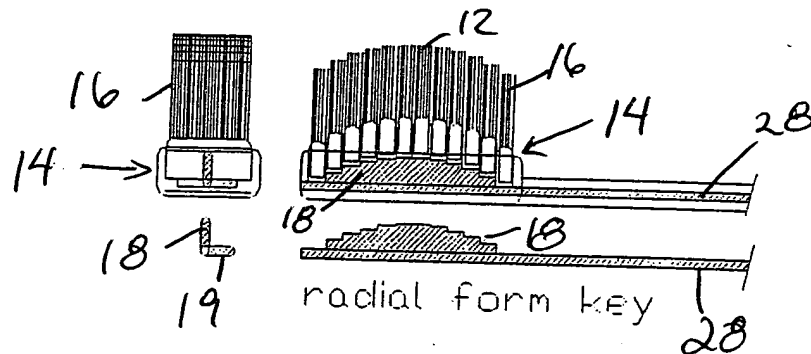


FIG. 7B

inverted radial

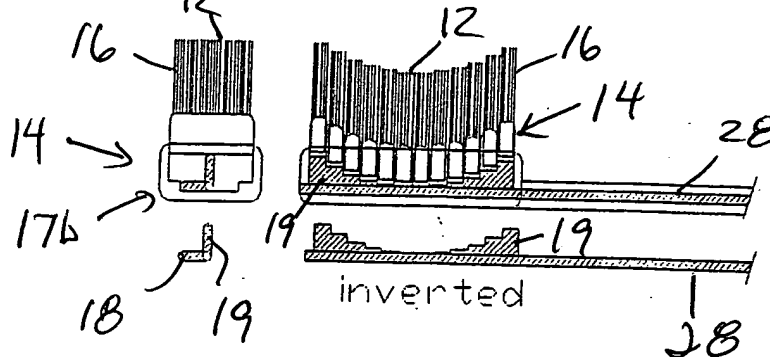
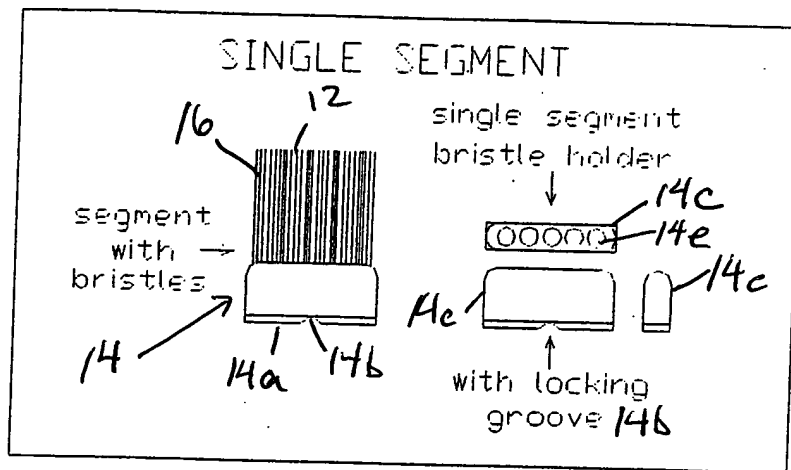


FIG. 7C

FIG 8

12 SEGMENT TOOTHBRUSH COMPONENT



BRUSH ASSEMBLY

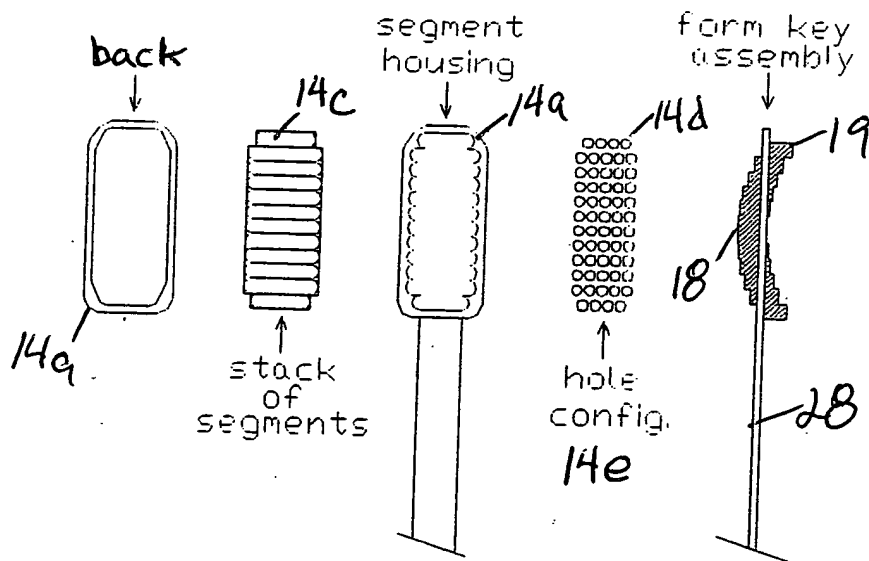
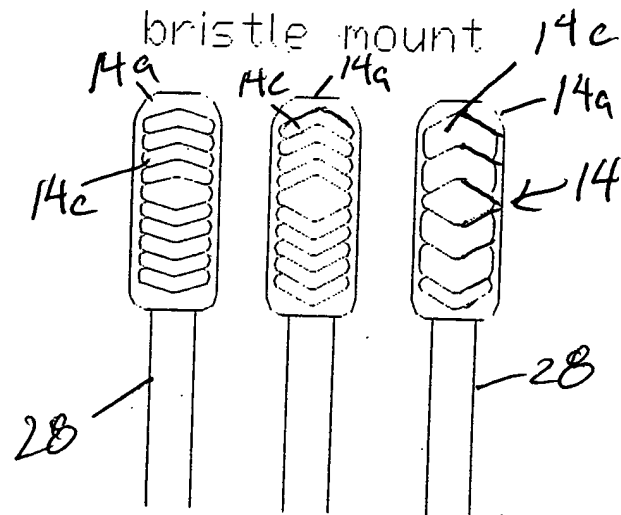


FIG. 9

FIG. 9

Design variations
of the
segmented

bristle mount



vertically segmented
bristle mount

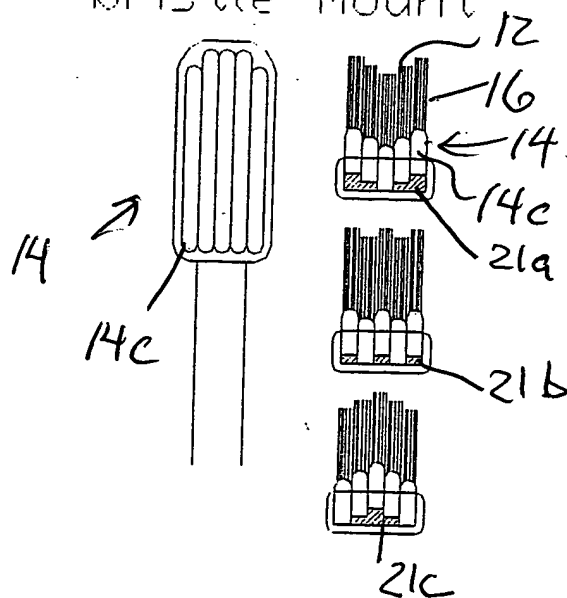
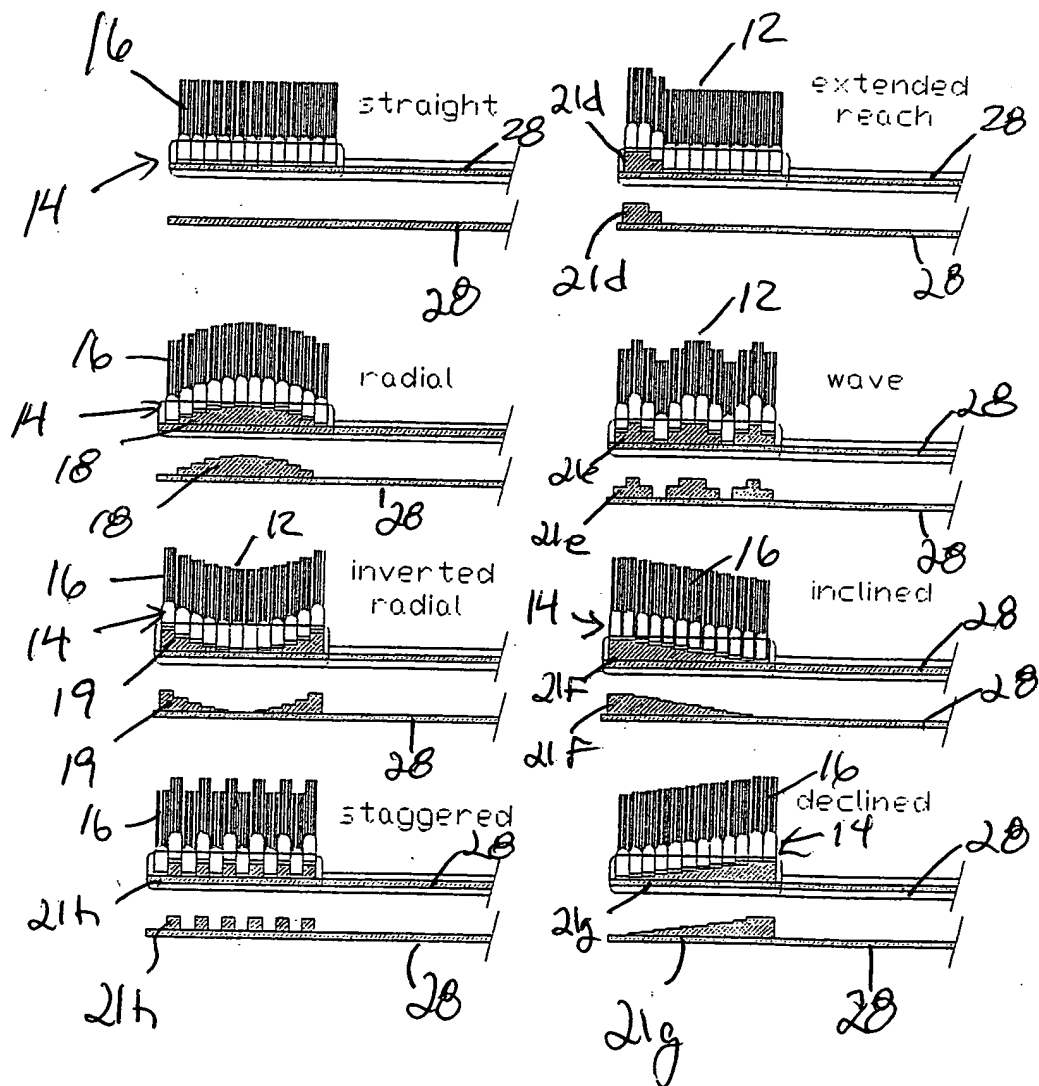


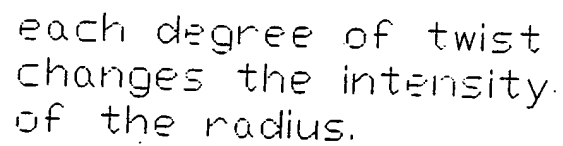
FIG. 10

FIG. 10

Assorted bristle configurations
and form keys
for 12 segment
toothbrush



10 segment toothbrush
with formed wire



Note: the first and last rows of bristles are fixed to the main housing.

FIG. 12

FIG. 12

10 segment toothbrush
with formed wire
twist guide
and
no housing

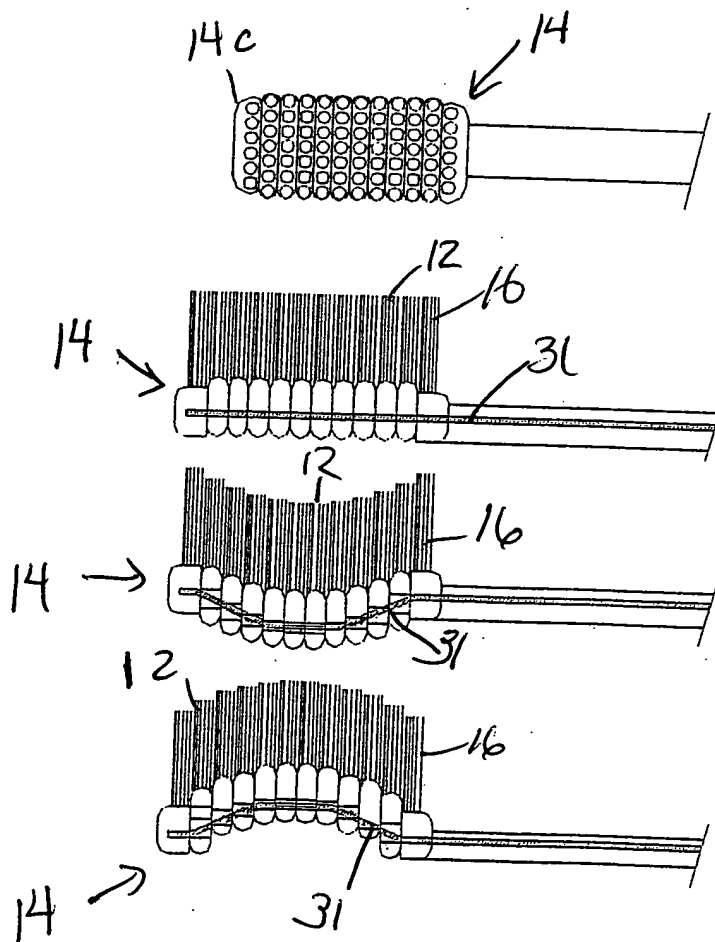
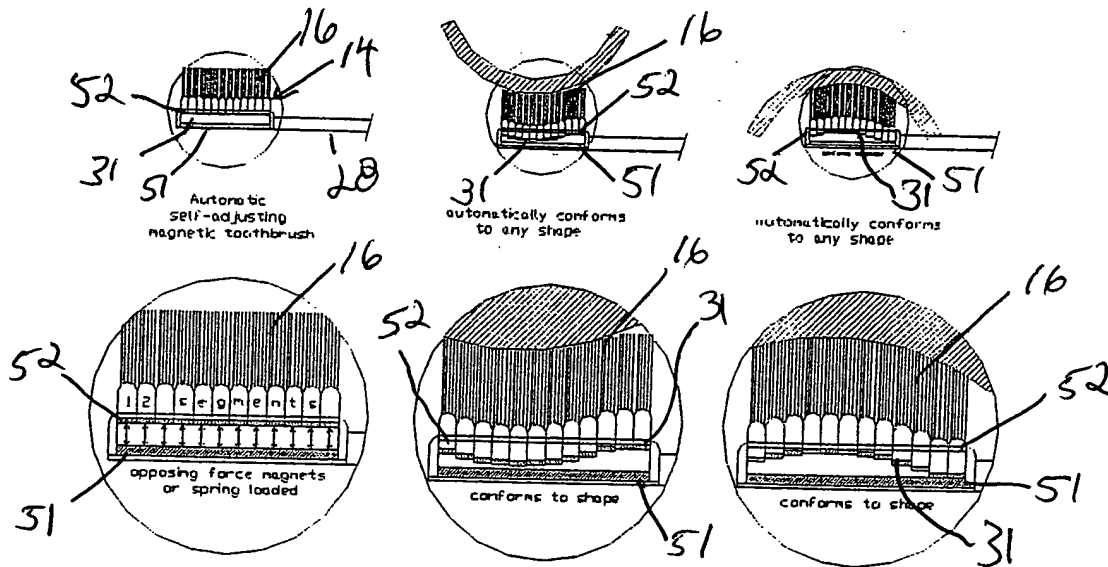


FIG. 13

12 Segment Self-Conforming Toothbrush

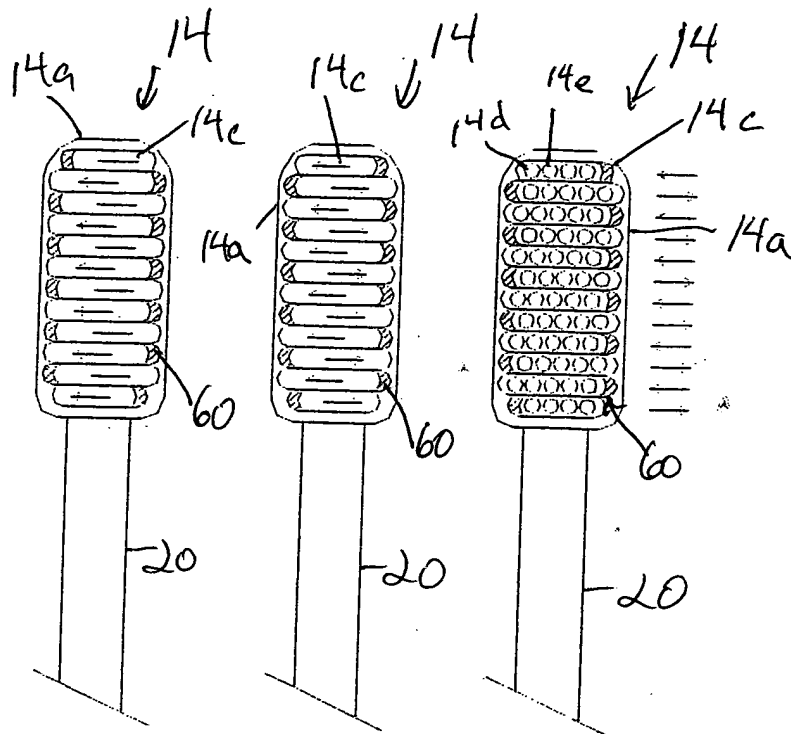


Each segment moves independently of each other and are spring loaded. Together they conform to any surface shape while maintaining constant pressure on the brushing area and thereby providing a very efficient cleaning of the teeth.

These units may be spring loaded or other methods such as the use of opposing magnets, like the ones shown above may be used.

FIG. 14

12 segment
electric toothbrush
with opposing horizontal
brushing strokes



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